

CLAIMS:

1. A multiplate clutch provided with two types of frictionally engaging elements and a piston with plural pressing raised portions formed thereon, at least one type of said frictionally engaging elements being provided with small waves, and said two types of frictionally engaging elements being alternately arranged on two members such that in a state of relative rotation between said two members, rotation is transmitted via said frictionally engaging elements as needed,

wherein said waves on each of said frictionally engaging elements of said at least one type are arranged such that positions of swell portions or recess portions of said waves are shifted in phase from positions of said pressing raised portions of said piston.

2. A multiplate clutch according to claim 1, wherein one of a number of said swell or recess portions on each frictionally engaging element of said at least one type and a number of said pressing raised portions on said piston is an even number, and the other one is an odd number.

3. A multiplate clutch according to claim 1, wherein at least one of said swell or recess portions on each frictionally engaging element of said at least one type and said pressing raised portions on said piston are arranged unevenly on and along a circle.

4. A multiplate clutch according to claim 1, wherein at

least two frictionally engaging elements which are different in the number of swell portions or recess portions are arranged.

5. A multiplate clutch provided with two types of frictionally engaging elements, at least one type of said frictionally engaging elements being provided with small waves, and said two types of frictionally engaging elements being alternately arranged on two members such that in a state of relative rotation between said two members, rotation is transmitted via said frictionally engaging elements as needed,

wherein said frictionally engaging elements provided with small waves out of said frictionally engaging elements are each arranged such that positions of said swell portions or recess portions of its small waves are shifted in phase from positions of said swell portions or recess portions of an adjacent one of said frictionally engaging elements provided with small waves.

6. A multiplate clutch according to claim 5, wherein said frictionally engaging elements provided with small waves out of said frictionally engaging elements are each provided with said waves such that said swell portions or recess portions of its waves are different in number from said swell portions or recess portions of said waves on an adjacent one of said frictionally engaging elements provided with said small waves.

7. A multiplate clutch according to claim 5, wherein one of a number of said swell or recess portions on each of

frictionally engaging elements provided with said waves and a number of said swell or recess portions on an adjacent one of said frictionally engaging elements provided with said waves is an even number, and the other one is an odd number.

8. A multiplate clutch according to claim 5, wherein in at least one of adjacent ones of said frictionally engaging elements provided with said waves, positions of said swell or recess portions are arranged unevenly on and along a circle.

9. A multiplate clutch provided with two types of frictionally engaging elements, at least one type of said frictionally engaging elements being provided with small waves, and said two types of frictionally engaging elements being alternately arranged on splines formed on two members such that in a state of relative rotation between said two members, rotation is transmitted via said frictionally engaging elements as needed,

wherein said frictionally engaging elements provided with small waves out of said frictionally engaging elements are arranged such that positions of swell portions or recess portions on said frictionally engaging elements provided with small waves are registered or shifted in phase; and said frictionally engaging elements provided with small waves are each arranged such that positions of said swell portions or recess portions of its small waves are shifted in phase from positions of said swell portions or recess portions of an

adjacent one of said frictionally engaging elements provided with small waves.